

MATERIAL SAFETY DATA SHEETSECTION I

Manufacturer's Name: STAR BRONZE COMPANY, INC.  
P.O. Box 2206  
Alliance, Ohio 44601-0206

Emergency Telephone Number:  
330-823-1550

Identity: 73000 Zip-Strip Water-Rinsable  
Industrial Strength Paint & Finish Remover

Telephone Number for Information:  
330-823-1550

Date Prepared: 01/23/01  
(Revised)

SECTION II - Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>Percent</u> <u>by Weight</u>	<u>OSHA PEL</u> <u>(PPM)</u>	<u>ACGIH TLV</u> <u>(PPM)</u>
Methylene Chloride	75-09-2	80	25*	
Mineral Spirits	8052-41-3	<5	100	100
Ethanol	64-17-5	<10	1000	1000
Methanol	67-56-1	<4	200(skin)	200(skin)
Nonylphenol Polyethoxylate	9016-45-9	<4	----	----

\*STEL 125 PPM

Section 313: Supplier Notification. This product contains the following toxic chemicals, subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right to Know Act of 1986, and of 40 CFR 372. Methylene Chloride and Methanol. This information must be included in all Material Safety Data Sheets that are copied and distributed for this material.

SECTION III - Physical/ Chemical Characteristics

Boiling Range: 104°F

Vapor Density: (air=1)>1

Evaporation Rate: <1 (Butyl Acetate=1.0)

Weight per Gallon: 9.81 lbs.

Percent Volatile: 95.8%

Solubility in Water: slightly soluble in water

Appearance and Odor: white semi-gelled liquid,  
sweetish organic odor

Specific Gravity: 1.179

VOC: 189 grams/liter

Vapor Pressure: 266 MM Hg @ 20°C

VOS: 9.3 lbs./gal.

(VOC Vapor Pressure less exempt solvent 13MM Hg @  
20°C)

SECTION IV - Fire and Explosion Hazard Data

Flash Point: None

Flammable Limits: unknown

LEL: unknown

UEL: unknown

Extinguishing Media: water fog, dry chemical, foam, carbon dioxide.

Special Fire Fighting Procedures: Fire fighters should wear full protective clothing and self-contained positive pressure breathing apparatus with full face piece due to thermal decomposition products.

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**SECTION IV - Fire and Explosion Hazard Data (continued)**


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Unusual Fire and Explosion Hazards: Concentrated vapors can be ignited by high intensity ignition sources. Closed containers may rupture or explode when exposed to extreme heat.

HMIS Codes:            Health 3            Flammability 1            Reactivity 0

NFPA Codes:            Health 2            Flammability 1            Reactivity 0

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**SECTION V - Reactivity Data**


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Stability: Stable

Conditions to Avoid: High heat, open flame, welding arcs or other hot surfaces.

Incompatibility: Materials to avoid: Strong alkalis, oxygen, nitrogen peroxide, sodium, potassium, and other oxidizers and reactive metals.

Hazardous Decomposition of By-products: Hydrogen chloride, phosgene (small amounts), chlorine, carbon dioxide, carbon monoxide and various hydro-carbons.

Hazardous Polymerization: Will not occur

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**SECTION VI - Health Hazard Data**


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Routes of Entry:            Inhalation - Yes            Skin - Yes            Ingestion - Yes

Health Hazard Acute and Chronic:

Inhalation: Overexposure can cause nasal & respiratory irritation, central nervous system effects including fatigue, headaches, weakness, dizziness, nausea, dullness, unconsciousness or in extreme cases, death. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or prove fatal. Exposure to high concentrations can cause irregular heartbeat, cardiac arrest and death. Overexposure has been shown to cause adverse effects on the lungs, liver, kidney, nervous system and other internal organs.

Carboxyhemoglobin levels can be elevated in persons exposed to methylene chloride and can cause a substantial stress on the cardiovascular system. This elevation can be additive to the increase caused by smoking and other carbon monoxide sources.

Skin: Prolonged or repeated contact of liquid can cause irritation, defatting of skin, and dermatitis. Prolonged single exposure can result in progressively severe burning sensation and redness. Can be absorbed through the skin causing adverse health effects as described above in the INHALATION section.

Eyes: Can cause severe irritation, redness, tearing and blurred vision.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea. Methylene Chloride metabolizes in the body to produce carbon monoxide which reduces the oxygen carrying capacity of the blood.

Chronic Overexposure: Excessive exposure may cause permanent brain and nervous system damage.

Medical Conditions Aggravated by Exposure: Alcoholism, acute and chronic liver and kidney disease, chronic lung disease, anemia, coronary disease or rhythm disorders of the heart. People having or suspected of having heart trouble, pulmonary disorders or women during pregnancy, should consult their physician before using the product.

Carcinogenicity: IARC lists methylene chloride as a 2B Carcinogen (sufficient evidence for the carcinogenicity of methylene chloride to experimental animals and inadequate evidence for the carcinogenicity of methylene chloride to humans), NTP lists methylene chloride as an animal carcinogen. Methylene chloride is listed on the IARC and NTP Carcinogen lists, but not by OSHA.

The State of California has listed Methylene Chloride under Proposition 65 as a chemical known to the state to cause cancer. Warning: This product contains a chemical known to the State of California to cause cancer. The State of California has listed Benzene as a chemical known to the state to cause cancer and birth defects or other reproductive harm. Warning: This product may contain a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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SECTION VI - Health Hazard Data (continued)

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Emergency First Aid Procedures:

Inhalation: If a person breaths in large amounts of vapors, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration, keep the affected person warm and at rest, get medical attention.

Skin: If material comes in contact with the skin, promptly wash the contaminated skin with soap and water. If it penetrates through clothing, remove clothing and wash the skin with soap and water. If irritation persists, get medical attention.

Eyes: If material comes in contact with the eyes, immediately flush the eyes with large amounts of water, occasionally lifting the lower and upper lids, get medical attention. Contact lenses should not be worn when working with this material.

Ingestion: If ingested, do not induce vomiting. Immediately give one or two glasses of water and call a physician, hospital emergency room or poison control center. If vomiting occurs, solvents aspirated into lungs can cause chemical pneumonia and systemic effects.

NOTE TO PHYSICIAN: Adrenalin should never be given to a person overexposed to Methylene Chloride. Avoid Epinephrine or similar drugs.

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SECTION VII - Precautions for Safe Handling and Use

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Steps to be taken in case material is released or spilled

Small Spill: Mop up or absorb with absorbent material. Transfer to closed metal container.

Large Spill: Clear personnel from area. Do not breathe vapors. Ventilate area of leak or spill. If indoors, turn off heating or air conditioning systems to prevent vapors from contaminating entire building. Wear protective equipment including positive pressure self-contained or air supplied breathing apparatus. Stop spill at source and contain liquid. Clean up by mopping or with absorbent material and place in a closed metal container for disposal. Do not flush to sewer or water ways.

Waste Disposal Method:

Small Spill: Dispose of according to all local, state, & federal regulations.

Large Spill: Dispose of by sending to licensed reclaimer or permitted incinerator, according to local, state and federal regulations.

Precautions to be taken in handling and storing: Store in tightly sealed, labeled containers in a cool, dry, well ventilated area. Aluminum equipment should not be used for storage and/or transfer. Vapors are heavier than air and will collect in low areas.

Other precautions: Contact with aluminum parts in a pressurized fluid system may cause violent reactions.

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SECTION VIII - Control Measures

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Respiratory Protection: Vapor levels should be maintained below the listed PEL's and TLV's. If work place exposure limits of product (or any component) are exceeded a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. The minimum requirements for respiratory protection for methylene chloride appear in 29CFR 1910.1052(F). For emergencies use a self-contained breathing apparatus with full face piece.

Ventilation: Do not use in basements or in closed or confined areas. Open doors and windows. Use general or exhaust ventilation to meet TLV and PEL requirements.

Protective Gloves: Use Viton, Poly Vinyl Alcohol or Polyethylene lined gloves.

Eye Protection: Where there is reasonable probability of eye contact, wear safety goggles.

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SECTION VIII - Control Measures (continued)

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Other Protective Clothing or Equipment: Where prolonged or frequently repeated contact could occur use protective clothing impervious to this material. Selection of specific items, such as gloves, boots or aprons will depend upon operation.

Work/ Hygienic Practices: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mist. Wash thoroughly after handling and before eating, drinking or smoking. Remove any contaminated clothing promptly and clean before reuse.

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SECTION IX - Transportation Data

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DOT Proper Shipping Name:	Paint Related Material
DOT Class:	N/A
DOT ID Number:	N/A
DOT Packaging Group	N/A

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SECTION X - Regulatory Information

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Reportable quantity (Rq)	RQ Product Quantity
Methylene Chloride - 1,000 lbs.	1,250 lbs.
Methanol - 5,000 lbs.	125,000 lbs.
Ethanol - N/A	
Mineral Spirits - N/A	

## Toxic Substances Control Act

All ingredients are listed or comply with TSCA Inventory

## SARA 311/312 Hazard Categories

Health - Immediate Health, Delayed health

The information and recommendations contained herein have been compiled from sources believed to be accurate and reliable. The information herein is given in good faith, but no warranty, expressed or implied, is made.